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CLAIMS

- A mobile terminal, comprising:
- 2 a processor;
- 3 a memory;
- 4 transceiver circuitry;
- 5 an internal bus coupled to the memory, to the
- 6 transceiver circuitry and to the processor; and
- 7 wherein the memory includes computer instructions
- 8 that define operational logic of the mobile terminal to
- 9 enable the mobile terminal to remove IP packet header
- 10 information of a plurality of data packets and to
- 11 construct an SMS message.
 - 1 2. The mobile terminal of claim 1 further
- 2 including computer instructions that define operational
- 3 logic to enable the mobile terminal to process the
- 4 constructed SMS message.
- 3. The mobile terminal of claim 1 further
- 2 including an audio processing circuit for generating
- 3 audio to be played over a speaker, which audio signals
- 4 were received as a digital signal by the mobile terminal.

- 1 4. The mobile terminal of claim 1 further
- 2 including a speaker coupled to receive an analog signal
- 3 from the audio processing circuit wherein the speaker
- 4 creates audio for human perception.
- 1 5. The mobile terminal of claim 1 further
- 2 including a microphone for converting sound into
- 3 electrical signals, which electrical signals are
- 4 transmitted to the audio processor.

- 6. A mobile terminal, comprising:
- 2 transceiver circuitry for receiving communication
- 3 signals over a wireless communication link; and
- 4 SMS message processing circuitry for reconstructing
- 5 and processing SMS messages transmitted in a data packet
- 6 format, the processing circuitry being coupled to receive
- 7 data packets from the transceiver circuitry.
- 1 7. The mobile terminal of claim 6 further
- 2 comprising legacy SMS message processing circuitry
- 3 wherein the mobile terminal is coupled to receive SMS
- 4 messages in both data packet and in legacy SMS message
- 5 formats.
- 1 8. The mobile terminal of claim 6 further
- 2 comprising audio processing circuitry coupled to receive
- 3 communication signals from the transceiver circuitry.
- 9. The mobile terminal of claim 8 further
- 2 comprising a speaker coupled to the audio processing
- 3 circuitry for producing sound.
- 1 10. The mobile terminal of claim 8 further
- 2 comprising a microphone for receiving sound waves and for
- 3 converting the received sound waves into electrical

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- 1 signals that are to produced to the audio processor for
- 2 processing.
- 1 11. A method in a GPRS capable mobile terminal for
- 2 receiving an SMS message, comprising:
- 3 receiving a plurality of data packets;
- 4 determining that the plurality of data packets form
- 5 an SMS message;
- 6 removing packet header information;
- 7 reforming an SMS message; and
- 8 processing the SMS message by SMS processing
 - circuitry within the mobile terminal.
- 1 12. The method of claim 11 further including the
- 2 step of receiving an SMS message in a legacy format and
- 3 then processing the SMS message by the SMS processing
- 4 circuitry within the mobile terminal.
- 1 13. The method of claim 11 further including the
- 2 step of transmitting an SMS message from the mobile
- 3 terminal to a base station in a data packet format.
- 1 14. The method of claim 13 further including the
- 2 step of converting an SMS message into a plurality of
- 3 data packets.

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- 1 15. The method of claim 14 further including the
- 2 step of inserting an IP address of a message center
- 3 within a header of each of the data packets.